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MISCELLANEOUS REPORT NO. 26

# COMMODITY DRAIN FROM FORESTS OF THE LAKE STATES

1952

By Arthur G. Horn, Forest Economist

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Lake States Forest Experiment Station

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Miscellaneous Report No. 26

# COMMODITY DRAIN FROM FORESTS OF THE LAKE STATES - 1952

By Arthur G. Horn, Forest Economist [1]
Lake States Forest Experiment Station [2]

## INTRODUCTION

Industries and public agencies frequently request data on forest products manufacture and timber drain. To meet these demands effectively and to provide estimates for forest surveys, the Station periodically prepares summaries such as presented here for 1952. With the exception of 1951, similar reports have been prepared each year since 1946. [3]

In using the data given in this report, one should keep in mind the standards and definitions used in compiling the information (see definitions).

## Basis for Production Statistics

Because 1952 lumber production figures were not available from the Bureau of Census, the Station had to develop its own plan for making independent estimates of lumber production. A brief statement regarding the source of the production data and the procedure used for making these estimates follows:

### Minnesota

A complete canvass of sawmills to obtain the 1952 cut of lumber by species was made in 45 counties by field personnel of the Office of Iron Range Resources and Rehabilitation and Minnesota Forest Service.

The production data obtained in the 45 counties were applied on an area basis to the other 15 lumber producing counties in the state. The small volume of lumber produced in the remaining 27 counties in the southwestern part of the state was accounted for by applying a production ratio based on past lumber production records. Over a period of years these 27 counties have accounted for less than one percent of the state's annual lumber output.

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[1] The author gratefully acknowledges the help from the Office of Iron Range Resources & Rehabilitation, State Conservation Departments, and of many owners and operators of primary wood-using establishments in the region who so kindly cooperated and furnished much of the basic information so necessary in this report.

[2] Maintained by the U. S. Department of Agriculture, Forest Service, in cooperation with the University of Minnesota, St. Paul Campus, St. Paul 1, Minnesota.

[3] Miscellaneous Report No. 7 (1946); Miscellaneous Report No. 9 (1947); Station Paper No. 20 (1948); Miscellaneous Report No. 19 (1949); and Miscellaneous Report No. 18 (1950).

Wisconsin - Michigan

No census data were available for 1952 but the Station had regional estimates of the Bureau of Census for 1950 from which it had derived state estimates for that year. The Station also had lumber production records for 1950 and 1952 for nearly 50 percent of the large mills and 17 percent of the medium-size mills in each of the two states. By use of these identical mills and the 1950 state estimates, the large and medium mill output was calculated for each state. The species distribution was kept in the proportions shown by the 1950 records.

Forest Survey collaborators obtained 1952 data for small sawmills in 8 scattered counties in Wisconsin and 10 in Michigan. Total state lumber production figures for the small mill class was calculated from this sample by area ratio.

For the commercial and container veneer, pulp, distillation, cooperage, and excelsior industry a 100 percent canvass was made of all plants known to have procured logs and bolts from the Lake States region. The 1952 log and bolt receipt figures obtained from these industries were used as a basis for production estimates.

For such items as round and split mine materials, piling, utility poles, etc., a complete canvass was made of all the iron and copper mines operating in the region, and of all the known wholesalers and distributors of piling and utility poles.

Fuelwood and fence post estimates are based on information collected by Forest Survey cooperators from farmers and other rural nonfarm residents in about 20 counties in each state. Additional information on post production was obtained from carloading reports of railroads operating in the region.

## Conversion Factors

The Station has collected supplemental information on each product as to:- (1) percent of wood volume obtained from live, dead, and cull trees, and from by-product materials, and (2) proportion of volume cut from sawtimber and poletimber trees. Gross volumes of individual products were determined from information furnished by industry. For example, stock records for posts, poles, and piling showed the number of pieces by length, top, and butt diameters. Such information made possible calculations of gross volume for each product. By incorporating these findings with utilization data collected during a recent field survey (1953), a set of conversion and waste factors were prepared for the major products which are closely in line with present utilization standards of wood-using industries.

## General Limitations of Data

The Forest Survey accuracy goal for timber drain estimates is ±5 percent per billion cubic feet, which would permit a standard error of slightly less than 7 percent on the 1952 estimate for the Lake States. Because of the variety of sources and methods used, it is almost impossible to calculate the probable errors of the 1952 estimate. It is believed, however, that the total falls within this limit. In any case, we feel that the estimates are the best obtainable at this time and will serve a useful purpose.

## Survey Definitions

Commodity production--The gross volume of a forest product cut from any class of material from commercial or noncommercial forest lands. Production has been expressed in the following standard survey units:- Board-foot log scale; International 1/4-inch rule; cord (4x4x8 feet); rough-wood basis; number of pieces; number of lineal feet; and number of cubic feet (inside bark).

Cutting drain--The net volume of timber removed from growing stock on commercial forest lands through commodity production and logging waste during the year, expressed in board feet, International 1/4-inch rule, and cubic feet (i.b.).

Drain from sawtimber trees--The net volume (board feet, International 1/4-inch) of the log portion in softwood trees 9 inches and larger, and hardwood trees 11 inches and larger, d.b.h., removed during logging operations. The cubic-foot volume shown includes both the sawlog equivalent plus the volume in the tops to a 4-inch minimum.

Drain from poletimber trees--The net volume in cubic feet (i.b.) of poletimber removed through cutting during the year. Included in this class are softwood trees from 5.0 to 8.9 inches and hardwood trees from 5.0 to 10.9 inches d.b.h. It includes cubic-foot volume found in the tree stems to a minimum top diameter of 4 inches (i.b.).

# CUTTING DRAIN FROM PRIMARY GROWING STOCK

## 1952

Table 1. - Net timber drain resulting from cutting sawlogs and sawbolts in the Lake States - 1952

| Species and total | Net timber drain by size classes: Total: M bd.ft. | Total: M cu.ft. | Sawtimber: M bd.ft. | Sawtimber: M cu.ft. | Poletimber: M cu.ft. |
|---|---|---|---|---|---|
| White pine | 49,121 | 10,963 | 49,121 | 9,291 | 1,672 |
| Minnesota | 19,005 | 4,242 | 19,005 | 3,595 | 647 |
| Wisconsin | 18,361 | 4,098 | 18,361 | 3,473 | 625 |
| Michigan | 11,755 | 2,623 | 11,755 | 2,223 | 400 |
| Red pine | 37,410 | 8,349 | 37,410 | 7,076 | 1,273 |
| Minnesota | 22,480 | 5,017 | 22,480 | 4,252 | 765 |
| Wisconsin | 11,026 | 2,461 | 11,026 | 2,086 | 375 |
| Michigan | 3,904 | 871 | 3,904 | 738 | 133 |
| Jack pine | 52,664 | 11,755 | 52,664 | 9,962 | 1,793 |
| Minnesota | 35,332 | 7,886 | 35,332 | 6,684 | 1,202 |
| Wisconsin | 6,950 | 1,551 | 6,950 | 1,314 | 237 |
| Michigan | 10,382 | 2,318 | 10,382 | 1,964 | 354 |
| Spruce | 6,624 | 1,480 | 6,624 | 1,254 | 226 |
| Minnesota | 3,063 | 684 | 3,063 | 580 | 104 |
| Wisconsin | 730 | 163 | 730 | 138 | 25 |
| Michigan | 2,831 | 633 | 2,831 | 536 | 97 |
| Balsam | 3,261 | 727 | 3,261 | 616 | 111 |
| Minnesota | 2,231 | 498 | 2,231 | 422 | 76 |
| Wisconsin | 558 | 124 | 558 | 105 | 19 |
| Michigan | 472 | 105 | 472 | 89 | 16 |
| Tamarack | 2,078 | 463 | 2,078 | 392 | 71 |
| Minnesota | 876 | 195 | 876 | 165 | 30 |
| Wisconsin | 730 | 163 | 730 | 138 | 25 |
| Michigan | 472 | 105 | 472 | 89 | 16 |
| Cedar | 5,730 | 1,280 | 5,730 | 1,085 | 195 |
| Minnesota | 1,784 | 398 | 1,784 | 338 | 60 |
| Wisconsin | 1,115 | 249 | 1,115 | 211 | 38 |
| Michigan | 2,831 | 633 | 2,831 | 536 | 97 |
| Hemlock | 92,279 | 20,604 | 92,279 | 17,455 | 3,149 |
| Minnesota | - | - | - | - | - |
| Wisconsin | 31,704 | 7,084 | 31,704 | 5,997 | 1,087 |
| Michigan | 60,575 | 13,520 | 60,575 | 11,458 | 2,062 |
| Softwood total | 249,167 | 55,621 | 249,167 | 47,131 | 8,490 |
| Minnesota | 84,771 | 18,920 | 84,771 | 16,036 | 2,884 |
| Wisconsin | 71,174 | 15,893 | 71,174 | 13,462 | 2,431 |
| Michigan | 93,222 | 20,808 | 93,222 | 17,633 | 3,175 |
| Maple | 211,655 | 42,907 | 211,655 | 39,026 | 3,881 |
| Minnesota | 1,392 | 283 | 1,392 | 257 | 26 |
| Wisconsin | 58,317 | 11,823 | 58,317 | 10,753 | 1,070 |
| Michigan | 151,946 | 30,801 | 151,946 | 28,016 | 2,785 |
| Birch | 57,255 | 11,608 | 57,255 | 10,558 | 1,050 |
| Minnesota | 5,071 | 1,029 | 5,071 | 936 | 93 |
| Wisconsin | 15,581 | 3,159 | 15,581 | 2,873 | 286 |
| Michigan | 36,603 | 7,420 | 36,603 | 6,749 | 671 |
| Basswood | 44,966 | 9,115 | 44,966 | 8,291 | 824 |
| Minnesota | 9,008 | 1,826 | 9,008 | 1,661 | 165 |
| Wisconsin | 21,529 | 4,364 | 21,529 | 3,969 | 395 |
| Michigan | 14,429 | 2,925 | 14,429 | 2,661 | 264 |
| Elm | 60,649 | 12,293 | 60,649 | 11,181 | 1,112 |
| Minnesota | 8,556 | 1,734 | 8,556 | 1,577 | 157 |
| Wisconsin | 21,944 | 4,448 | 21,944 | 4,046 | 402 |
| Michigan | 30,149 | 6,111 | 30,149 | 5,558 | 553 |
| Beech | 24,433 | 4,953 | 24,433 | 4,505 | 448 |
| Minnesota | - | - | - | - | - |
| Wisconsin | 1,199 | 243 | 1,199 | 221 | 22 |
| Michigan | 23,234 | 4,710 | 23,234 | 4,284 | 426 |
| Oak | 115,093 | 23,331 | 115,093 | 21,222 | 2,109 |
| Minnesota | 19,298 | 3,911 | 19,298 | 3,558 | 353 |
| Wisconsin | 52,922 | 10,728 | 52,922 | 9,758 | 970 |
| Michigan | 42,873 | 8,692 | 42,873 | 7,906 | 786 |
| Aspen | 54,317 | 29,835 | 54,317 | 10,627 | 19,208 |
| Minnesota | 16,105 | 8,846 | 16,105 | 3,151 | 5,695 |
| Wisconsin | 22,770 | 12,507 | 22,770 | 4,455 | 8,052 |
| Michigan | 15,442 | 8,482 | 15,442 | 3,021 | 5,461 |
| Cottonwood | 8,548 | 1,732 | 8,548 | 1,575 | 157 |
| Minnesota | 4,075 | 826 | 4,075 | 751 | 75 |
| Wisconsin | 2,075 | 420 | 2,075 | 382 | 38 |
| Michigan | 2,398 | 486 | 2,398 | 442 | 44 |
| Miscellaneous | 16,226 | 3,287 | 16,226 | 2,990 | 297 |
| Minnesota | 1,972 | 400 | 1,972 | 363 | 37 |
| Wisconsin | 5,440 | 1,102 | 5,440 | 1,003 | 99 |
| Michigan | 8,814 | 1,785 | 8,814 | 1,624 | 161 |
| Hardwood total | 593,142 | 139,061 | 593,142 | 109,975 | 29,086 |
| Minnesota | 65,477 | 18,855 | 65,477 | 12,254 | 6,601 |
| Wisconsin | 201,777 | 48,794 | 201,777 | 37,460 | 11,334 |
| Michigan | 325,888 | 71,412 | 325,888 | 60,261 | 11,151 |
| All Species | 842,309 | 194,682 | 842,309 | 157,106 | 37,576 |
| Minnesota | 150,248 | 37,775 | 150,248 | 28,290 | 9,485 |
| Wisconsin | 272,951 | 64,687 | 272,951 | 50,922 | 13,765 |
| Michigan | 419,110 | 92,220 | 419,110 | 77,894 | 14,326 |

Table 2. - Net timber drain resulting from cutting veneer logs in the Lake States - 1952

| Species and total | Net timber drain by size classes | | | | |
|---|---|---|---|---|---|
| | Total | | Sawtimber | | Poletimber |
| | M bd.ft. | M cu.ft. | M bd.ft. | M cu.ft. | M cu.ft. |
| White pine | 250 | 45 | 250 | 45 | - |
| Minnesota | 8 | 1 | 8 | 1 | - |
| Wisconsin | 52 | 10 | 52 | 10 | - |
| Michigan | 190 | 34 | 190 | 34 | - |
| Red pine | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Jack pine | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Spruce | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Balsam | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Tamarack | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Cedar | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Hemlock | 153 | 28 | 153 | 28 | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | 153 | 28 | 153 | 28 | - |
| Michigan | - | - | - | - | - |
| Softwood total | 403 | 73 | 403 | 73 | - |
| Minnesota | 8 | 1 | 8 | 1 | - |
| Wisconsin | 205 | 38 | 205 | 38 | - |
| Michigan | 190 | 34 | 190 | 34 | - |
| Maple | 24,769 | 4,260 | 24,769 | 4,260 | - |
| Minnesota | 864 | 148 | 864 | 148 | - |
| Wisconsin | 7,527 | 1,294 | 7,527 | 1,294 | - |
| Michigan | 16,378 | 2,818 | 16,378 | 2,818 | - |
| Birch | 18,978 | 3,265 | 18,978 | 3,265 | - |
| Minnesota | 357 | 62 | 357 | 62 | - |
| Wisconsin | 4,859 | 836 | 4,859 | 836 | - |
| Michigan | 13,762 | 2,367 | 13,762 | 2,367 | - |
| Basswood | 10,809 | 1,860 | 10,809 | 1,860 | - |
| Minnesota | 3,197 | 550 | 3,197 | 550 | - |
| Wisconsin | 4,234 | 729 | 4,234 | 729 | - |
| Michigan | 3,378 | 581 | 3,378 | 581 | - |
| Elm | 11,942 | 2,054 | 11,942 | 2,054 | - |
| Minnesota | 1,010 | 173 | 1,010 | 173 | - |
| Wisconsin | 8,231 | 1,416 | 8,231 | 1,416 | - |
| Michigan | 2,701 | 465 | 2,701 | 465 | - |
| Beech | 3,287 | 565 | 3,287 | 565 | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | 17 | 3 | 17 | 3 | - |
| Michigan | 3,270 | 562 | 3,270 | 562 | - |
| Oak | 5,273 | 906 | 5,273 | 906 | - |
| Minnesota | 839 | 144 | 839 | 144 | - |
| Wisconsin | 3,570 | 614 | 3,570 | 614 | - |
| Michigan | 864 | 148 | 864 | 148 | - |
| Aspen | 1,447 | 247 | 1,447 | 247 | - |
| Minnesota | 684 | 117 | 684 | 117 | - |
| Wisconsin | 490 | 84 | 490 | 84 | - |
| Michigan | 273 | 46 | 273 | 46 | - |
| Cottonwood | 1,576 | 272 | 1,576 | 272 | - |
| Minnesota | 1,267 | 218 | 1,267 | 218 | - |
| Wisconsin | 283 | 49 | 283 | 49 | - |
| Michigan | 26 | 5 | 26 | 5 | - |
| Miscellaneous | 2,931 | 503 | 2,931 | 503 | - |
| Minnesota | 149 | 25 | 149 | 25 | - |
| Wisconsin | 1,763 | 303 | 1,763 | 303 | - |
| Michigan | 1,019 | 175 | 1,019 | 175 | - |
| Hardwood total | 81,012 | 13,932 | 81,012 | 13,932 | - |
| Minnesota | 8,367 | 1,437 | 8,367 | 1,437 | - |
| Wisconsin | 30,974 | 5,328 | 30,974 | 5,328 | - |
| Michigan | 41,671 | 7,167 | 41,671 | 7,167 | - |
| All Species | 81,415 | 14,005 | 81,415 | 14,005 | - |
| Minnesota | 8,375 | 1,438 | 8,375 | 1,438 | - |
| Wisconsin | 31,179 | 5,366 | 31,179 | 5,366 | - |
| Michigan | 41,861 | 7,201 | 41,861 | 7,201 | - |

Table 3. - Net timber drain resulting from cutting heading stock in the Lake States - 1952

| Species and total | Net timber drain by size classes: Total | | Sawtimber | | Poletimber | Species and total | Net timber drain by size classes: Total | | Sawtimber | | Poletimber |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | M bd.ft. | M cu.ft. | M bd.ft. | M cu.ft. | M cu.ft. | | M bd.ft. | M cu.ft. | M bd.ft. | M cu.ft. | M cu.ft. |
| White pine | - | - | - | - | - | Birch | 301 | 92 | 301 | 69 | 23 |
| Minnesota | - | - | - | - | - | Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - | Wisconsin | 226 | 69 | 226 | 52 | 17 |
| Michigan | - | - | - | - | - | Michigan | 75 | 23 | 75 | 17 | 6 |
| Red pine | - | - | - | - | - | Basswood | 1,089 | 328 | 1,089 | 249 | 79 |
| Minnesota | - | - | - | - | - | Minnesota | 54 | 16 | 54 | 12 | 4 |
| Wisconsin | - | - | - | - | - | Wisconsin | 1,014 | 306 | 1,014 | 232 | 74 |
| Michigan | - | - | - | - | - | Michigan | 21 | 6 | 21 | 5 | 1 |
| Jack pine | - | - | - | - | - | Elm | 185 | 56 | 185 | 42 | 14 |
| Minnesota | - | - | - | - | - | Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - | Wisconsin | 182 | 55 | 182 | 41 | 14 |
| Michigan | - | - | - | - | - | Michigan | 3 | 1 | 3 | 1 | - |
| Spruce | - | - | - | - | - | Beech | - | - | - | - | - |
| Minnesota | - | - | - | - | - | Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - | Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - | Michigan | - | - | - | - | - |
| Balsam | - | - | - | - | - | Oak | - | - | - | - | - |
| Minnesota | - | - | - | - | - | Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - | Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - | Michigan | - | - | - | - | - |
| Tamarack | - | - | - | - | - | Aspen | 3,456 | 1,044 | 3,456 | 790 | 254 |
| Minnesota | - | - | - | - | - | Minnesota | 253 | 77 | 253 | 58 | 19 |
| Wisconsin | - | - | - | - | - | Wisconsin | 2,987 | 902 | 2,987 | 683 | 219 |
| Michigan | - | - | - | - | - | Michigan | 216 | 65 | 216 | 49 | 16 |
| Cedar | - | - | - | - | - | Cottonwood | 255 | 77 | 255 | 59 | 18 |
| Minnesota | - | - | - | - | - | Minnesota | 7 | 2 | 7 | 2 | - |
| Wisconsin | - | - | - | - | - | Wisconsin | 38 | 11 | 38 | 8 | 3 |
| Michigan | - | - | - | - | - | Michigan | 210 | 64 | 210 | 49 | 15 |
| Hemlock | - | - | - | - | - | Ash | 210 | 64 | 210 | 49 | 15 |
| Minnesota | - | - | - | - | - | Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - | Wisconsin | 210 | 64 | 210 | 49 | 15 |
| Michigan | - | - | - | - | - | Michigan | - | - | - | - | - |
| Softwood total | - | - | - | - | - | Hardwood total | 6,061 | 1,832 | 6,061 | 1,388 | 444 |
| Minnesota | - | - | - | - | - | Minnesota | 314 | 95 | 314 | 72 | 23 |
| Wisconsin | - | - | - | - | - | Wisconsin | 5,222 | 1,578 | 5,222 | 1,195 | 383 |
| Michigan | - | - | - | - | - | Michigan | 525 | 159 | 525 | 121 | 38 |
| Maple | 565 | 171 | 565 | 130 | 41 | All Species | 6,061 | 1,832 | 6,061 | 1,388 | 444 |
| Minnesota | - | - | - | - | - | Minnesota | 314 | 95 | 314 | 72 | 23 |
| Wisconsin | 565 | 171 | 565 | 130 | 41 | Wisconsin | 5,222 | 1,578 | 5,222 | 1,195 | 383 |
| Michigan | - | - | - | - | - | Michigan | 525 | 159 | 525 | 121 | 38 |

## Table 4. - Net timber drain resulting from pulpwood cutting in the Lake States - 1952

| Species and total | Net timber drain by size classes: Total M bd.ft. | Total M cu.ft. | Sawtimber M bd.ft. | Sawtimber M cu.ft. | Poletimber M cu.ft. |
|---|---|---|---|---|---|
| White pine | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Red pine | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Jack pine | 13,521 | 27,042 | 13,521 | 4,126 | 22,916 |
| Minnesota | 7,554 | 15,109 | 7,554 | 2,305 | 12,804 |
| Wisconsin | 3,702 | 7,404 | 3,702 | 1,130 | 6,274 |
| Michigan | 2,265 | 4,529 | 2,265 | 691 | 3,838 |
| Spruce | 17,613 | 35,224 | 17,613 | 5,374 | 29,850 |
| Minnesota | 11,415 | 22,829 | 11,415 | 3,483 | 19,346 |
| Wisconsin | 1,518 | 3,035 | 1,518 | 463 | 2,572 |
| Michigan | 4,680 | 9,360 | 4,680 | 1,428 | 7,932 |
| Balsam | 15,266 | 30,534 | 15,266 | 4,659 | 25,875 |
| Minnesota | 6,367 | 12,735 | 6,367 | 1,943 | 10,792 |
| Wisconsin | 2,956 | 5,912 | 2,956 | 902 | 5,010 |
| Michigan | 5,943 | 11,887 | 5,943 | 1,814 | 10,073 |
| Tamarack | 559 | 1,118 | 559 | 170 | 948 |
| Minnesota | 497 | 992 | 497 | 151 | 841 |
| Wisconsin | 55 | 111 | 55 | 17 | 94 |
| Michigan | 7 | 15 | 7 | 2 | 13 |
| Cedar | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Hemlock | 50,725 | 14,928 | 50,725 | 9,886 | 5,042 |
| Minnesota | - | - | - | - | - |
| Wisconsin | 17,507 | 5,151 | 17,507 | 3,411 | 1,740 |
| Michigan | 33,218 | 9,777 | 33,218 | 6,475 | 3,302 |
| Softwood total | 97,684 | 108,846 | 97,684 | 24,215 | 84,631 |
| Minnesota | 25,833 | 51,665 | 25,833 | 7,882 | 43,783 |
| Wisconsin | 25,738 | 21,613 | 25,738 | 5,923 | 15,690 |
| Michigan | 46,113 | 35,568 | 46,113 | 10,410 | 25,158 |
| Maple | 631 | 1,464 | 631 | 175 | 1,289 |
| Minnesota | - | - | - | - | - |
| Wisconsin | 360 | 836 | 360 | 100 | 736 |
| Michigan | 271 | 628 | 271 | 75 | 553 |
| Birch | 913 | 2,119 | 913 | 253 | 1,866 |
| Minnesota | 84 | 195 | 84 | 23 | 172 |
| Wisconsin | 527 | 1,222 | 527 | 146 | 1,076 |
| Michigan | 302 | 702 | 302 | 84 | 618 |
| Basswood | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Elm | 616 | 1,432 | 616 | 172 | 1,260 |
| Minnesota | - | - | - | - | - |
| Wisconsin | 180 | 419 | 180 | 51 | 368 |
| Michigan | 436 | 1,013 | 436 | 121 | 892 |
| Beech | 44 | 104 | 44 | 12 | 92 |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | 44 | 104 | 44 | 12 | 92 |
| Oak | 26 | 62 | 26 | 7 | 55 |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | 26 | 62 | 26 | 7 | 55 |
| Aspen | 29,538 | 68,594 | 29,538 | 8,206 | 60,388 |
| Minnesota | 9,720 | 22,571 | 9,720 | 2,700 | 19,871 |
| Wisconsin | 9,917 | 23,031 | 9,917 | 2,755 | 20,276 |
| Michigan | 9,901 | 22,992 | 9,901 | 2,751 | 20,241 |
| Cottonwood | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Miscellaneous | 117 | 275 | 117 | 33 | 242 |
| Minnesota | 73 | 171 | 73 | 21 | 150 |
| Wisconsin | - | - | - | - | - |
| Michigan | 44 | 104 | 44 | 12 | 92 |
| Hardwood total | 31,885 | 74,050 | 31,885 | 8,858 | 65,192 |
| Minnesota | 9,877 | 22,937 | 9,877 | 2,744 | 20,193 |
| Wisconsin | 10,984 | 25,508 | 10,984 | 3,052 | 22,456 |
| Michigan | 11,024 | 25,605 | 11,024 | 3,062 | 22,543 |
| All Species | 129,569 | 182,896 | 129,569 | 33,073 | 149,823 |
| Minnesota | 35,710 | 74,602 | 35,710 | 10,626 | 63,976 |
| Wisconsin | 36,722 | 47,121 | 36,722 | 8,975 | 38,146 |
| Michigan | 57,137 | 61,173 | 57,137 | 13,472 | 47,701 |

Table 5. - Net timber drain resulting from fuelwood cutting in the Lake States - 1952

| Species | Net timber drain by size classes | | | | |
|---|---|---|---|---|---|
| and | Total | | Sawtimber | | Poletimber |
| total | M bd.ft. | M cu.ft. | M bd.ft. | M cu.ft. | M cu.ft. |
| White pine | 720 | 871 | 720 | 373 | 498 |
| Minnesota | 180 | 217 | 180 | 93 | 124 |
| Wisconsin | 240 | 290 | 240 | 124 | 166 |
| Michigan | 300 | 364 | 300 | 156 | 208 |
| Red pine | 600 | 724 | 600 | 309 | 415 |
| Minnesota | 240 | 289 | 240 | 123 | 166 |
| Wisconsin | 240 | 290 | 240 | 124 | 166 |
| Michigan | 120 | 145 | 120 | 62 | 83 |
| Jack pine | 1,860 | 2,245 | 1,860 | 960 | 1,285 |
| Minnesota | 1,320 | 1,591 | 1,320 | 680 | 911 |
| Wisconsin | 420 | 509 | 420 | 218 | 291 |
| Michigan | 120 | 145 | 120 | 62 | 83 |
| Spruce | 180 | 217 | 180 | 93 | 124 |
| Minnesota | 60 | 72 | 60 | 31 | 41 |
| Wisconsin | - | - | - | - | - |
| Michigan | 120 | 145 | 120 | 62 | 83 |
| Balsam | 120 | 144 | 120 | 62 | 82 |
| Minnesota | 60 | 72 | 60 | 31 | 41 |
| Wisconsin | - | - | - | - | - |
| Michigan | 60 | 72 | 60 | 31 | 41 |
| Tamarack | 480 | 579 | 480 | 248 | 331 |
| Minnesota | 300 | 362 | 300 | 155 | 207 |
| Wisconsin | 120 | 145 | 120 | 62 | 83 |
| Michigan | 60 | 72 | 60 | 31 | 41 |
| Cedar | 240 | 292 | 240 | 125 | 167 |
| Minnesota | 60 | 73 | 60 | 31 | 42 |
| Wisconsin | 60 | 74 | 60 | 32 | 42 |
| Michigan | 120 | 145 | 120 | 62 | 83 |
| Hemlock | 1,320 | 1,598 | 1,320 | 684 | 914 |
| Minnesota | - | - | - | - | - |
| Wisconsin | 420 | 509 | 420 | 218 | 291 |
| Michigan | 900 | 1,089 | 900 | 466 | 623 |
| Softwood total | 5,520 | 6,670 | 5,520 | 2,854 | 3,816 |
| Minnesota | 2,220 | 2,676 | 2,220 | 1,144 | 1,532 |
| Wisconsin | 1,500 | 1,817 | 1,500 | 778 | 1,039 |
| Michigan | 1,800 | 2,177 | 1,800 | 932 | 1,245 |
| Maple | 19,170 | 19,387 | 19,170 | 7,457 | 11,930 |
| Minnesota | 270 | 274 | 270 | 106 | 168 |
| Wisconsin | 8,640 | 8,736 | 8,640 | 3,360 | 5,376 |
| Michigan | 10,260 | 10,377 | 10,260 | 3,991 | 6,386 |
| Birch | 8,775 | 8,866 | 8,775 | 3,412 | 5,454 |
| Minnesota | 1,485 | 1,495 | 1,485 | 577 | 918 |
| Wisconsin | 3,780 | 3,822 | 3,780 | 1,470 | 2,352 |
| Michigan | 3,510 | 3,549 | 3,510 | 1,365 | 2,184 |
| Basswood | 1,755 | 1,773 | 1,755 | 683 | 1,090 |
| Minnesota | 810 | 816 | 810 | 315 | 501 |
| Wisconsin | 675 | 684 | 675 | 263 | 421 |
| Michigan | 270 | 273 | 270 | 105 | 168 |
| Elm | 8,505 | 8,592 | 8,505 | 3,307 | 5,285 |
| Minnesota | 1,890 | 1,902 | 1,890 | 734 | 1,168 |
| Wisconsin | 2,295 | 2,322 | 2,295 | 893 | 1,429 |
| Michigan | 4,320 | 4,368 | 4,320 | 1,680 | 2,688 |
| Beech | 3,240 | 3,278 | 3,240 | 1,261 | 2,017 |
| Minnesota | - | - | - | - | - |
| Wisconsin | 135 | 138 | 135 | 53 | 85 |
| Michigan | 3,105 | 3,140 | 3,105 | 1,208 | 1,932 |
| Oak | 26,865 | 27,145 | 26,865 | 10,447 | 16,698 |
| Minnesota | 4,725 | 4,757 | 4,725 | 1,836 | 2,921 |
| Wisconsin | 16,065 | 16,245 | 16,065 | 6,248 | 9,997 |
| Michigan | 6,075 | 6,143 | 6,075 | 2,363 | 3,780 |
| Aspen | 22,275 | 22,479 | 22,275 | 8,659 | 13,820 |
| Minnesota | 9,855 | 9,921 | 9,855 | 3,829 | 6,092 |
| Wisconsin | 8,100 | 8,190 | 8,100 | 3,150 | 5,040 |
| Michigan | 4,320 | 4,368 | 4,320 | 1,680 | 2,688 |
| Cottonwood | 2,835 | 2,860 | 2,835 | 1,102 | 1,758 |
| Minnesota | 1,485 | 1,495 | 1,485 | 577 | 918 |
| Wisconsin | 540 | 546 | 540 | 210 | 336 |
| Michigan | 810 | 819 | 810 | 315 | 504 |
| Miscellaneous | 3,375 | 3,412 | 3,375 | 1,314 | 2,098 |
| Minnesota | 1,215 | 1,223 | 1,215 | 472 | 751 |
| Wisconsin | 1,350 | 1,368 | 1,350 | 526 | 842 |
| Michigan | 810 | 821 | 810 | 316 | 505 |
| Hardwood total | 96,795 | 97,792 | 96,795 | 37,642 | 60,150 |
| Minnesota | 21,735 | 21,883 | 21,735 | 8,446 | 13,437 |
| Wisconsin | 41,580 | 42,051 | 41,580 | 16,173 | 25,878 |
| Michigan | 33,480 | 33,858 | 33,480 | 13,023 | 20,835 |
| All Species | 102,315 | 104,462 | 102,315 | 40,496 | 63,966 |
| Minnesota | 23,955 | 24,559 | 23,955 | 9,590 | 14,969 |
| Wisconsin | 43,080 | 43,868 | 43,080 | 16,951 | 26,917 |
| Michigan | 35,280 | 36,035 | 35,280 | 13,955 | 22,080 |

## Table 6. - Net timber drain resulting from cutting logs for piling in the Lake States - 1952

| Species and total | Net timber drain by size classes | | | | |
|---|---|---|---|---|---|
| | Total | | Sawtimber | | Poletimber |
| | M bd.ft. | M cu.ft. | M bd.ft. | M cu.ft. | M cu.ft. |
| White pine | 33 | 6 | 33 | 6 | - |
| Minnesota | 33 | 6 | 33 | 6 | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Red pine | 745 | 128 | 745 | 128 | - |
| Minnesota | 602 | 104 | 602 | 104 | - |
| Wisconsin | - | - | - | - | - |
| Michigan | 143 | 24 | 143 | 24 | - |
| Jack pine | 548 | 95 | 548 | 95 | - |
| Minnesota | 548 | 95 | 548 | 95 | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Spruce | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Balsam | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Tamarack | 4 | 1 | 4 | 1 | - |
| Minnesota | 4 | 1 | 4 | 1 | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Cedar | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Hemlock | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Softwood total | 1,330 | 230 | 1,330 | 230 | - |
| Minnesota | 1,187 | 206 | 1,187 | 206 | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Maple | 118 | 18 | 118 | 18 | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | 33 | 5 | 33 | 5 | - |
| Michigan | 85 | 13 | 85 | 13 | - |
| Birch | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Basswood | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Elm | 672 | 116 | 672 | 116 | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | 522 | 91 | 522 | 91 | - |
| Michigan | 150 | 25 | 150 | 25 | - |
| Beech | 122 | 21 | 122 | 21 | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | 122 | 21 | 122 | 21 | - |
| Oak | 1,325 | 226 | 1,325 | 226 | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | 303 | 53 | 303 | 53 | - |
| Michigan | 1,022 | 173 | 1,022 | 173 | - |
| Aspen | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Cottonwood | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Miscellaneous | 132 | 23 | 132 | 23 | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | 17 | 3 | 17 | 3 | - |
| Michigan | 115 | 20 | 115 | 20 | - |
| Hardwood total | 2,369 | 404 | 2,369 | 404 | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | 875 | 152 | 875 | 152 | - |
| Michigan | 1,494 | 252 | 1,494 | 252 | - |
| All Species | 3,699 | 634 | 3,699 | 634 | - |
| Minnesota | 1,187 | 206 | 1,187 | 206 | - |
| Wisconsin | 875 | 152 | 875 | 152 | - |
| Michigan | 1,637 | 276 | 1,637 | 276 | - |

Table 7. - Net timber drain resulting from cutting chemical wood in the Lake States - 1952

| Species and total | Net timber drain by size classes: Total, M bd.ft. | Total, M cu.ft. | Sawtimber, M bd.ft. | Sawtimber, M cu.ft. | Poletimber, M cu.ft. |
|---|---|---|---|---|---|
| White pine | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Red pine | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Jack pine | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Spruce | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Balsam | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Tamarack | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Cedar | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Hemlock | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Softwood total | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Maple | 5,678 | 1,638 | 5,678 | 1,441 | 197 |
| Minnesota | - | - | - | - | - |
| Wisconsin | 270 | 79 | 270 | 69 | 10 |
| Michigan | 5,408 | 1,559 | 5,408 | 1,372 | 187 |
| Birch | 2,928 | 845 | 2,928 | 744 | 101 |
| Minnesota | - | - | - | - | - |
| Wisconsin | 125 | 36 | 125 | 32 | 4 |
| Michigan | 2,803 | 809 | 2,803 | 712 | 97 |
| Basswood | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Elm | 312 | 89 | 312 | 78 | 11 |
| Minnesota | - | - | - | - | - |
| Wisconsin | 26 | 7 | 26 | 6 | 1 |
| Michigan | 286 | 82 | 286 | 72 | 10 |
| Beech | 962 | 275 | 962 | 242 | 33 |
| Minnesota | - | - | - | - | - |
| Wisconsin | 42 | 11 | 42 | 10 | 1 |
| Michigan | 920 | 264 | 920 | 232 | 32 |
| Oak | 338 | 97 | 338 | 85 | 12 |
| Minnesota | - | - | - | - | - |
| Wisconsin | 31 | 9 | 31 | 8 | 1 |
| Michigan | 307 | 88 | 307 | 77 | 11 |
| Aspen | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Ash | 333 | 95 | 333 | 83 | 12 |
| Minnesota | - | - | - | - | - |
| Wisconsin | 26 | 7 | 26 | 6 | 1 |
| Michigan | 307 | 88 | 307 | 77 | 11 |
| Miscellaneous | 52 | 12 | 52 | 10 | 2 |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | 52 | 12 | 52 | 10 | 2 |
| Hardwood total | 10,603 | 3,051 | 10,603 | 2,683 | 368 |
| Minnesota | - | - | - | - | - |
| Wisconsin | 520 | 149 | 520 | 131 | 18 |
| Michigan | 10,083 | 2,902 | 10,083 | 2,552 | 350 |
| All Species | 10,603 | 3,051 | 10,603 | 2,683 | 368 |
| Minnesota | - | - | - | - | - |
| Wisconsin | 520 | 149 | 520 | 131 | 18 |
| Michigan | 10,083 | 2,902 | 10,083 | 2,552 | 350 |

## Table 8. - Net timber drain resulting from cutting excelsior bolts in the Lake States - 1952

| Species and total | Net timber drain by size classes | | | | |
|---|---|---|---|---|---|
| | Total | | Sawtimber | | Poletimber |
| | M bd.ft. | M cu.ft. | M bd.ft. | M cu.ft. | M cu.ft. |
| White pine | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Red pine | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Jack pine | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Spruce | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Balsam | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Tamarack | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Cedar | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Hemlock | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Softwood total | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Maple | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Birch | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Basswood | 45 | 339 | 45 | 13 | 326 |
| Minnesota | 1 | 8 | 1 | - | 8 |
| Wisconsin | 42 | 315 | 42 | 13 | 302 |
| Michigan | 2 | 16 | 2 | - | 16 |
| Elm | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Beech | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Oak | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Aspen | 853 | 6,426 | 853 | 250 | 6,176 |
| Minnesota | 7 | 49 | 7 | 1 | 48 |
| Wisconsin | 415 | 3,133 | 415 | 122 | 3,011 |
| Michigan | 431 | 3,244 | 431 | 127 | 3,117 |
| Cottonwood | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Miscellaneous | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Hardwood total | 898 | 6,765 | 898 | 263 | 6,502 |
| Minnesota | 8 | 57 | 8 | 1 | 56 |
| Wisconsin | 457 | 3,448 | 457 | 135 | 3,313 |
| Michigan | 433 | 3,260 | 433 | 127 | 3,133 |
| All Species | 898 | 6,765 | 898 | 263 | 6,502 |
| Minnesota | 8 | 57 | 8 | 1 | 56 |
| Wisconsin | 457 | 3,448 | 457 | 135 | 3,313 |
| Michigan | 433 | 3,260 | 433 | 127 | 3,133 |

Table 9. - Net timber drain resulting from fence post cutting in the Lake States - 1952

| Species and total | Net timber drain by size class | | | | |
|---|---|---|---|---|---|
| | Total | | Sawtimber | | Poletimber |
| | M bd.ft. | M cu.ft. | M bd.ft. | M cu.ft. | M cu.ft. |
| White pine | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Red pine | 94 | 94 | 94 | 33 | 61 |
| Minnesota | 94 | 94 | 94 | 33 | 61 |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Jack pine | 286 | 288 | 286 | 101 | 187 |
| Minnesota | 270 | 273 | 270 | 96 | 177 |
| Wisconsin | 16 | 15 | 16 | 5 | 10 |
| Michigan | - | - | - | - | - |
| Spruce | 4 | 3 | 4 | 1 | 2 |
| Minnesota | 4 | 3 | 4 | 1 | 2 |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Balsam | 37 | 37 | 37 | 13 | 24 |
| Minnesota | 37 | 37 | 37 | 13 | 24 |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Tamarack | 682 | 688 | 682 | 243 | 445 |
| Minnesota | 307 | 310 | 307 | 109 | 201 |
| Wisconsin | 375 | 378 | 375 | 134 | 244 |
| Michigan | - | - | - | - | - |
| Cedar | 7,627 | 7,713 | 7,627 | 2,713 | 5,000 |
| Minnesota | 781 | 789 | 781 | 278 | 511 |
| Wisconsin | 2,363 | 2,389 | 2,363 | 840 | 1,549 |
| Michigan | 4,483 | 4,535 | 4,483 | 1,595 | 2,940 |
| Hemlock | 16 | 16 | 16 | 5 | 11 |
| Minnesota | - | - | - | - | - |
| Wisconsin | 16 | 16 | 16 | 5 | 11 |
| Michigan | - | - | - | - | - |
| Softwood total | 8,746 | 8,839 | 8,746 | 3,109 | 5,730 |
| Minnesota | 1,493 | 1,506 | 1,493 | 530 | 976 |
| Wisconsin | 2,770 | 2,798 | 2,770 | 984 | 1,814 |
| Michigan | 4,483 | 4,535 | 4,483 | 1,595 | 2,940 |
| Maple | 101 | 111 | 101 | 35 | 76 |
| Minnesota | 53 | 58 | 53 | 19 | 39 |
| Wisconsin | 42 | 47 | 42 | 14 | 33 |
| Michigan | 6 | 6 | 6 | 2 | 4 |
| Birch | 40 | 42 | 40 | 14 | 28 |
| Minnesota | 9 | 7 | 9 | 3 | 4 |
| Wisconsin | 31 | 35 | 31 | 11 | 24 |
| Michigan | - | - | - | - | - |
| Basswood | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Elm | 60 | 65 | 60 | 20 | 45 |
| Minnesota | 12 | 13 | 12 | 4 | 9 |
| Wisconsin | 24 | 26 | 24 | 8 | 18 |
| Michigan | 24 | 26 | 24 | 8 | 18 |
| Beech | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Oak | 6,220 | 6,842 | 6,220 | 2,143 | 4,699 |
| Minnesota | 2,041 | 2,245 | 2,041 | 703 | 1,542 |
| Wisconsin | 2,952 | 3,247 | 2,952 | 1,017 | 2,230 |
| Michigan | 1,227 | 1,350 | 1,227 | 423 | 927 |
| Aspen | 345 | 378 | 345 | 118 | 260 |
| Minnesota | 168 | 185 | 168 | 58 | 127 |
| Wisconsin | 132 | 144 | 132 | 45 | 99 |
| Michigan | 45 | 49 | 45 | 15 | 34 |
| Cottonwood | 12 | 10 | 12 | 3 | 7 |
| Minnesota | 8 | 7 | 8 | 2 | 5 |
| Wisconsin | 4 | 3 | 4 | 1 | 2 |
| Michigan | - | - | - | - | - |
| Miscellaneous | 62 | 68 | 62 | 21 | 47 |
| Minnesota | 32 | 37 | 32 | 12 | 25 |
| Wisconsin | 16 | 17 | 16 | 5 | 12 |
| Michigan | 14 | 14 | 14 | 4 | 10 |
| Hardwood total | 6,840 | 7,516 | 6,840 | 2,354 | 5,162 |
| Minnesota | 2,323 | 2,552 | 2,323 | 801 | 1,751 |
| Wisconsin | 3,201 | 3,519 | 3,201 | 1,101 | 2,418 |
| Michigan | 1,316 | 1,445 | 1,316 | 452 | 993 |
| All Species | 15,586 | 16,355 | 15,586 | 5,463 | 10,892 |
| Minnesota | 3,816 | 4,058 | 3,816 | 1,331 | 2,727 |
| Wisconsin | 5,971 | 6,317 | 5,971 | 2,085 | 4,232 |
| Michigan | 5,799 | 5,980 | 5,799 | 2,047 | 3,933 |

Table 10. - Net timber drain resulting from cutting utility poles in the Lake States - 1952

| Species and total | Net timber drain by size classes | | | | |
|---|---|---|---|---|---|
| | Total | | Sawtimber | | Poletimber |
| | M bd.ft. | M cu.ft. | M bd.ft. | M cu.ft. | M cu.ft. |
| White pine | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Red pine | 228 | 88 | 228 | 49 | 39 |
| Minnesota | 213 | 83 | 213 | 46 | 37 |
| Wisconsin | 15 | 5 | 15 | 3 | 2 |
| Michigan | - | - | - | - | - |
| Jack pine | 616 | 242 | 616 | 135 | 107 |
| Minnesota | 601 | 237 | 601 | 132 | 105 |
| Wisconsin | 15 | 5 | 15 | 3 | 2 |
| Michigan | - | - | - | - | - |
| Spruce | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Balsam | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Tamarack | 7 | 2 | 7 | 1 | 1 |
| Minnesota | 7 | 2 | 7 | 1 | 1 |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Cedar | 3,815 | 1,499 | 3,815 | 834 | 665 |
| Minnesota | 2,855 | 1,121 | 2,855 | 624 | 497 |
| Wisconsin | 408 | 161 | 408 | 89 | 72 |
| Michigan | 552 | 217 | 552 | 121 | 96 |
| Hemlock | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Softwood total | 4,666 | 1,831 | 4,666 | 1,019 | 812 |
| Minnesota | 3,676 | 1,443 | 3,676 | 803 | 640 |
| Wisconsin | 438 | 171 | 438 | 95 | 76 |
| Michigan | 552 | 217 | 552 | 121 | 96 |
| Maple | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Birch | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Basswood | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Elm | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Beech | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Oak | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Aspen | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Cottonwood | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Miscellaneous | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Hardwood total | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| All Species | 4,666 | 1,831 | 4,666 | 1,019 | 812 |
| Minnesota | 3,676 | 1,443 | 3,676 | 803 | 640 |
| Wisconsin | 438 | 171 | 438 | 95 | 76 |
| Michigan | 552 | 217 | 552 | 121 | 96 |

Table 11. - Net timber drain resulting from cutting hewn ties in the Lake States - 1952

| Species and total | Net timber drain by size classes | | | | |
|---|---|---|---|---|---|
| | Total | | Sawtimber | | Poletimber |
| | M bd.ft. | M cu.ft. | M bd.ft. | M cu.ft. | M cu.ft. |
| White pine | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Red pine | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Jack pine | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Spruce | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Balsam | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Tamarack | 72 | 26 | 72 | 17 | 9 |
| Minnesota | 53 | 19 | 53 | 12 | 7 |
| Wisconsin | 9 | 4 | 9 | 3 | 1 |
| Michigan | 10 | 3 | 10 | 2 | 1 |
| Cedar | 199 | 71 | 199 | 45 | 26 |
| Minnesota | 54 | 18 | 54 | 12 | 6 |
| Wisconsin | 20 | 7 | 20 | 4 | 3 |
| Michigan | 125 | 46 | 125 | 29 | 17 |
| Hemlock | 20 | 7 | 20 | 4 | 3 |
| Minnesota | - | - | - | - | - |
| Wisconsin | 5 | 2 | 5 | 1 | 1 |
| Michigan | 15 | 5 | 15 | 3 | 2 |
| Softwood total | 291 | 104 | 291 | 66 | 38 |
| Minnesota | 107 | 37 | 107 | 24 | 13 |
| Wisconsin | 34 | 13 | 34 | 8 | 5 |
| Michigan | 150 | 54 | 150 | 34 | 20 |
| Maple | 86 | 25 | 86 | 20 | 5 |
| Minnesota | 6 | 1 | 6 | 1 | - |
| Wisconsin | 3 | 1 | 3 | 1 | - |
| Michigan | 77 | 23 | 77 | 18 | 5 |
| Birch | 41 | 12 | 41 | 9 | 2 |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | 41 | 12 | 41 | 9 | 2 |
| Basswood | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Elm | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Beech | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Oak | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Aspen | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Cottonwood | - | - | - | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Ash | 3 | 1 | 3 | 1 | - |
| Minnesota | 3 | 1 | 3 | 1 | - |
| Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - |
| Hardwood total | 130 | 38 | 130 | 30 | 8 |
| Minnesota | 9 | 2 | 9 | 2 | - |
| Wisconsin | 3 | 1 | 3 | 1 | - |
| Michigan | 118 | 35 | 118 | 27 | 8 |
| All Species | 421 | 142 | 421 | 96 | 46 |
| Minnesota | 116 | 39 | 116 | 26 | 13 |
| Wisconsin | 37 | 14 | 37 | 9 | 5 |
| Michigan | 268 | 89 | 268 | 61 | 28 |

Table 12. - Net timber drain resulting from cutting logs and bolts for mine materials in Lake States - 1952

| Species and total | Net timber drain by size classes | | | | | Species and total | Net timber drain by size classes | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Total | | Sawtimber | | Poletimber | | Total | | Sawtimber | | Poletimber |
| | M bd.ft. | M cu.ft. | M bd.ft. | M cu.ft. | M cu.ft. | | M bd.ft. | M cu.ft. | M bd.ft. | M cu.ft. | M cu.ft. |
| White pine | 133 | 53 | 133 | 37 | 16 | Birch | 1,408 | 392 | 1,408 | 317 | 75 |
| Minnesota | 28 | 11 | 28 | 8 | 3 | Minnesota | 35 | 10 | 35 | 8 | 2 |
| Wisconsin | - | - | - | - | - | Wisconsin | 76 | 21 | 76 | 17 | 4 |
| Michigan | 105 | 42 | 105 | 29 | 13 | Michigan | 1,297 | 361 | 1,297 | 292 | 69 |
| Red pine | 123 | 50 | 123 | 34 | 16 | Basswood | - | - | - | - | - |
| Minnesota | 120 | 49 | 120 | 33 | 16 | Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - | Wisconsin | - | - | - | - | - |
| Michigan | 3 | 1 | 3 | 1 | - | Michigan | - | - | - | - | - |
| Jack pine | 1,525 | 624 | 1,525 | 425 | 199 | Elm | 464 | 130 | 464 | 105 | 25 |
| Minnesota | 1,525 | 624 | 1,525 | 425 | 199 | Minnesota | 215 | 60 | 215 | 48 | 12 |
| Wisconsin | - | - | - | - | - | Wisconsin | 29 | 8 | 29 | 7 | 1 |
| Michigan | - | - | - | - | - | Michigan | 220 | 62 | 220 | 50 | 12 |
| Spruce | 46 | 19 | 46 | 12 | 7 | Beech | 248 | 70 | 248 | 56 | 14 |
| Minnesota | 41 | 17 | 41 | 11 | 6 | Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - | Wisconsin | - | - | - | - | - |
| Michigan | 5 | 2 | 5 | 1 | 1 | Michigan | 248 | 70 | 248 | 56 | 14 |
| Balsam | - | - | - | - | - | Oak | 74 | 20 | 74 | 16 | 4 |
| Minnesota | - | - | - | - | - | Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - | Wisconsin | 19 | 5 | 19 | 4 | 1 |
| Michigan | - | - | - | - | - | Michigan | 55 | 15 | 55 | 12 | 3 |
| Tamarack | 4,359 | 1,782 | 4,359 | 1,214 | 568 | Aspen | - | - | - | - | - |
| Minnesota | 1,526 | 624 | 1,526 | 425 | 199 | Minnesota | - | - | - | - | - |
| Wisconsin | 233 | 95 | 233 | 65 | 30 | Wisconsin | - | - | - | - | - |
| Michigan | 2,600 | 1,063 | 2,600 | 724 | 339 | Michigan | - | - | - | - | - |
| Cedar | 4,686 | 1,915 | 4,686 | 1,304 | 611 | Ash | 359 | 99 | 359 | 80 | 19 |
| Minnesota | 728 | 297 | 728 | 203 | 94 | Minnesota | 359 | 99 | 359 | 80 | 19 |
| Wisconsin | 348 | 143 | 348 | 97 | 46 | Wisconsin | - | - | - | - | - |
| Michigan | 3,610 | 1,475 | 3,610 | 1,004 | 471 | Michigan | - | - | - | - | - |
| Hemlock | 535 | 219 | 535 | 149 | 70 | Miscellaneous | - | - | - | - | - |
| Minnesota | - | - | - | - | - | Minnesota | - | - | - | - | - |
| Wisconsin | 84 | 34 | 84 | 23 | 11 | Wisconsin | - | - | - | - | - |
| Michigan | 451 | 185 | 451 | 126 | 59 | Michigan | - | - | - | - | - |
| Softwood total | 11,407 | 4,662 | 11,407 | 3,175 | 1,487 | Hardwood total | 7,430 | 2,072 | 7,430 | 1,674 | 398 |
| Minnesota | 3,968 | 1,622 | 3,968 | 1,105 | 517 | Minnesota | 720 | 200 | 720 | 161 | 39 |
| Wisconsin | 665 | 272 | 665 | 185 | 87 | Wisconsin | 267 | 74 | 267 | 60 | 14 |
| Michigan | 6,774 | 2,768 | 6,774 | 1,885 | 883 | Michigan | 6,443 | 1,798 | 6,443 | 1,453 | 345 |
| Maple | 4,877 | 1,361 | 4,877 | 1,100 | 261 | All Species | 18,837 | 6,734 | 18,837 | 4,849 | 1,885 |
| Minnesota | 111 | 31 | 111 | 25 | 6 | Minnesota | 4,688 | 1,822 | 4,688 | 1,266 | 556 |
| Wisconsin | 143 | 40 | 143 | 32 | 8 | Wisconsin | 932 | 346 | 932 | 245 | 101 |
| Michigan | 4,623 | 1,290 | 4,623 | 1,043 | 247 | Michigan | 13,217 | 4,566 | 13,217 | 3,338 | 1,228 |

Table 13. - Net timber drain resulting from cutting cooperate logs & bolts in the Lake States - 1952

| Species and total | Net timber drain by size classes | | | | | Species and total | Net timber drain by size classes | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Total | | Sawtimber | | Poletimber | | Total | | Sawtimber | | Poletimber |
| | M bd.ft. | M cu.ft. | M bd.ft. | M cu.ft. | M cu.ft. | | M bd.ft. | M cu.ft. | M bd.ft. | M cu.ft. | M cu.ft. |
| White pine | - | - | - | - | - | Birch | - | - | - | - | - |
| Minnesota | - | - | - | - | - | Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - | Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - | Michigan | - | - | - | - | - |
| Red pine | - | - | - | - | - | Basswood | 61 | 11 | 61 | 11 | - |
| Minnesota | - | - | - | - | - | Minnesota | 19 | 3 | 19 | 3 | - |
| Wisconsin | - | - | - | - | - | Wisconsin | 42 | 8 | 42 | 8 | - |
| Michigan | - | - | - | - | - | Michigan | - | - | - | - | - |
| Jack pine | - | - | - | - | - | Elm | - | - | - | - | - |
| Minnesota | - | - | - | - | - | Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - | Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - | Michigan | - | - | - | - | - |
| Spruce | - | - | - | - | - | Beech | - | - | - | - | - |
| Minnesota | - | - | - | - | - | Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - | Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - | Michigan | - | - | - | - | - |
| Balsam | - | - | - | - | - | Oak | 1,660 | 287 | 1,660 | 287 | - |
| Minnesota | - | - | - | - | - | Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - | Wisconsin | 1,660 | 287 | 1,660 | 287 | - |
| Michigan | - | - | - | - | - | Michigan | - | - | - | - | - |
| Tamarack | - | - | - | - | - | Aspen | - | - | - | - | - |
| Minnesota | - | - | - | - | - | Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - | Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - | Michigan | - | - | - | - | - |
| Cedar | - | - | - | - | - | Cottonwood | - | - | - | - | - |
| Minnesota | - | - | - | - | - | Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - | Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - | Michigan | - | - | - | - | - |
| Hemlock | - | - | - | - | - | Miscellaneous | - | - | - | - | - |
| Minnesota | - | - | - | - | - | Minnesota | - | - | - | - | - |
| Wisconsin | - | - | - | - | - | Wisconsin | - | - | - | - | - |
| Michigan | - | - | - | - | - | Michigan | - | - | - | - | - |
| Softwood total | - | - | - | - | - | Hardwood total | 1,721 | 298 | 1,721 | 298 | - |
| Minnesota | - | - | - | - | - | Minnesota | 19 | 3 | 19 | 3 | - |
| Wisconsin | - | - | - | - | - | Wisconsin | 1,702 | 295 | 1,702 | 295 | - |
| Michigan | - | - | - | - | - | Michigan | - | - | - | - | - |
| Maple | - | - | - | - | - | All Species | 1,721 | 298 | 1,721 | 298 | - |
| Minnesota | - | - | - | - | - | Minnesota | 19 | 3 | 19 | 3 | - |
| Wisconsin | - | - | - | - | - | Wisconsin | 1,702 | 295 | 1,702 | 295 | - |
| Michigan | - | - | - | - | - | Michigan | - | - | - | - | - |

Table 14. - Net timber drain resulting from cutting miscellaneous rough forest products - 1952

| Species and total | Net timber drain by size classes | | | | | Species and total | Net timber drain by size classes | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Total | | Sawtimber | | Poletimber | | Total | | Sawtimber | | Poletimber |
| | M bd.ft. | M cu.ft. | M bd.ft. | M cu.ft. | M cu.ft. | | M bd.ft. | M cu.ft. | M bd.ft. | M cu.ft. | M cu.ft. |
| White pine | 540 | 195 | 540 | 120 | 75 | Birch | 1,790 | 540 | 1,790 | 415 | 125 |
| Minnesota | 180 | 65 | 180 | 40 | 25 | Minnesota | 1,520 | 460 | 1,520 | 350 | 110 |
| Wisconsin | 180 | 65 | 180 | 40 | 25 | Wisconsin | 225 | 70 | 225 | 55 | 15 |
| Michigan | 180 | 65 | 180 | 40 | 25 | Michigan | 45 | 10 | 45 | 10 | - |
| Red pine | 325 | 120 | 325 | 75 | 45 | Basswood | 675 | 195 | 675 | 150 | 45 |
| Minnesota | 145 | 55 | 145 | 35 | 20 | Minnesota | 315 | 90 | 315 | 70 | 20 |
| Wisconsin | 70 | 25 | 70 | 15 | 10 | Wisconsin | 270 | 80 | 270 | 60 | 20 |
| Michigan | 110 | 40 | 110 | 25 | 15 | Michigan | 90 | 25 | 90 | 20 | 5 |
| Jack pine | 690 | 245 | 690 | 155 | 90 | Elm | 315 | 95 | 315 | 75 | 20 |
| Minnesota | 290 | 105 | 290 | 65 | 40 | Minnesota | - | - | - | - | - |
| Wisconsin | 145 | 55 | 145 | 35 | 20 | Wisconsin | - | - | - | - | - |
| Michigan | 255 | 85 | 255 | 55 | 30 | Michigan | 315 | 95 | 315 | 75 | 20 |
| Spruce | 175 | 55 | 175 | 35 | 20 | Beech | 2,700 | 815 | 2,700 | 615 | 200 |
| Minnesota | 70 | 20 | 70 | 15 | 5 | Minnesota | - | - | - | - | - |
| Wisconsin | 35 | 10 | 35 | 5 | 5 | Wisconsin | - | - | - | - | - |
| Michigan | 70 | 25 | 70 | 15 | 10 | Michigan | 2,700 | 815 | 2,700 | 615 | 200 |
| Balsam | 465 | 165 | 465 | 105 | 60 | Oak | 400 | 125 | 400 | 105 | 20 |
| Minnesota | 180 | 65 | 180 | 40 | 25 | Minnesota | 40 | 10 | 40 | 10 | - |
| Wisconsin | 70 | 25 | 70 | 15 | 10 | Wisconsin | 45 | 20 | 45 | 20 | - |
| Michigan | 215 | 75 | 215 | 50 | 25 | Michigan | 315 | 95 | 315 | 75 | 20 |
| Tamarack | 175 | 55 | 175 | 35 | 20 | Aspen | 9,990 | 3,005 | 9,990 | 2,280 | 725 |
| Minnesota | 70 | 20 | 70 | 15 | 5 | Minnesota | 7,740 | 2,320 | 7,740 | 1,760 | 560 |
| Wisconsin | 35 | 10 | 35 | 5 | 5 | Wisconsin | 1,530 | 460 | 1,530 | 350 | 110 |
| Michigan | 70 | 25 | 70 | 15 | 10 | Michigan | 720 | 225 | 720 | 170 | 55 |
| Cedar | 2,235 | 805 | 2,235 | 510 | 295 | Cottonwood | - | - | - | - | - |
| Minnesota | 290 | 105 | 290 | 65 | 40 | Minnesota | - | - | - | - | - |
| Wisconsin | 505 | 180 | 505 | 115 | 65 | Wisconsin | - | - | - | - | - |
| Michigan | 1,440 | 520 | 1,440 | 330 | 190 | Michigan | - | - | - | - | - |
| Hemlock | 140 | 50 | 140 | 30 | 20 | Miscellaneous | 45 | 10 | 45 | 10 | - |
| Minnesota | - | - | - | - | - | Minnesota | - | - | - | - | - |
| Wisconsin | 70 | 25 | 70 | 15 | 10 | Wisconsin | - | - | - | - | - |
| Michigan | 70 | 25 | 70 | 15 | 10 | Michigan | 45 | 10 | 45 | 10 | - |
| Softwood total | 4,745 | 1,690 | 4,745 | 1,065 | 625 | Hardwood total | 19,290 | 5,805 | 19,290 | 4,430 | 1,375 |
| Minnesota | 1,225 | 435 | 1,225 | 275 | 160 | Minnesota | 9,615 | 2,880 | 9,615 | 2,190 | 690 |
| Wisconsin | 1,110 | 395 | 1,110 | 245 | 150 | Wisconsin | 2,970 | 900 | 2,970 | 695 | 205 |
| Michigan | 2,410 | 860 | 2,410 | 545 | 315 | Michigan | 6,705 | 2,025 | 6,705 | 1,545 | 480 |
| Maple | 3,375 | 1,020 | 3,375 | 780 | 240 | All Species | 24,035 | 7,495 | 24,035 | 5,495 | 2,000 |
| Minnesota | - | - | - | - | - | Minnesota | 10,840 | 3,315 | 10,840 | 2,465 | 850 |
| Wisconsin | 900 | 270 | 900 | 210 | 60 | Wisconsin | 4,080 | 1,295 | 4,080 | 940 | 355 |
| Michigan | 2,475 | 750 | 2,475 | 570 | 180 | Michigan | 9,115 | 2,885 | 9,115 | 2,090 | 795 |

## Table 15. - Total net timber drain resulting from cutting in the Lake States - 1952

| Species and Total | Net timber drain by size classes | | | | |
|---|---|---|---|---|---|
| | Total | | Sawtimber | | Poletimber |
| | M bd.ft. | M cu.ft. | M bd.ft. | M cu.ft. | M cu.ft. |
| White pine | 50,797 | 12,133 | 50,797 | 9,872 | 2,261 |
| Minnesota | 19,434 | 4,542 | 19,434 | 3,743 | 799 |
| Wisconsin | 18,833 | 4,463 | 18,833 | 3,647 | 816 |
| Michigan | 12,530 | 3,128 | 12,530 | 2,482 | 646 |
| Red pine | 39,525 | 9,553 | 39,525 | 7,704 | 1,849 |
| Minnesota | 23,894 | 5,691 | 23,894 | 4,626 | 1,065 |
| Wisconsin | 11,351 | 2,781 | 11,351 | 2,228 | 553 |
| Michigan | 4,280 | 1,081 | 4,280 | 850 | 231 |
| Jack pine | 71,710 | 42,536 | 71,710 | 15,959 | 26,577 |
| Minnesota | 47,440 | 25,920 | 47,440 | 10,482 | 15,438 |
| Wisconsin | 11,248 | 9,539 | 11,248 | 2,705 | 6,834 |
| Michigan | 13,022 | 7,077 | 13,022 | 2,772 | 4,305 |
| Spruce | 24,642 | 36,998 | 24,642 | 6,769 | 30,229 |
| Minnesota | 14,653 | 23,625 | 14,653 | 4,121 | 19,504 |
| Wisconsin | 2,283 | 3,208 | 2,283 | 606 | 2,602 |
| Michigan | 7,706 | 10,165 | 7,706 | 2,042 | 8,123 |
| Balsam | 19,149 | 31,607 | 19,149 | 5,455 | 26,152 |
| Minnesota | 8,875 | 13,407 | 8,875 | 2,449 | 10,958 |
| Wisconsin | 3,584 | 6,061 | 3,584 | 1,022 | 5,039 |
| Michigan | 6,690 | 12,139 | 6,690 | 1,984 | 10,155 |
| Tamarack | 8,416 | 4,714 | 8,416 | 2,321 | 2,393 |
| Minnesota | 3,640 | 2,525 | 3,640 | 1,034 | 1,491 |
| Wisconsin | 1,557 | 906 | 1,557 | 424 | 482 |
| Michigan | 3,219 | 1,283 | 3,219 | 863 | 420 |
| Cedar | 24,532 | 13,575 | 24,532 | 6,616 | 6,969 |
| Minnesota | 6,552 | 2,801 | 6,552 | 1,551 | 1,250 |
| Wisconsin | 4,819 | 3,203 | 4,819 | 1,388 | 1,815 |
| Michigan | 13,161 | 7,571 | 13,161 | 3,677 | 3,894 |
| Hemlock | 145,188 | 37,450 | 145,188 | 28,241 | 9,209 |
| Minnesota | - | - | - | - | - |
| Wisconsin | 49,959 | 12,849 | 49,959 | 9,698 | 3,151 |
| Michigan | 95,229 | 24,601 | 95,229 | 18,543 | 6,059 |
| Softwood total | 383,959 | 188,566 | 383,959 | 82,937 | 105,629 |
| Minnesota | 124,488 | 78,511 | 124,488 | 28,006 | 50,505 |
| Wisconsin | 103,634 | 43,010 | 103,634 | 21,718 | 21,292 |
| Michigan | 155,837 | 67,045 | 155,837 | 33,213 | 33,832 |
| Maple | 271,025 | 72,362 | 271,025 | 54,442 | 17,920 |
| Minnesota | 2,696 | 795 | 2,696 | 556 | 239 |
| Wisconsin | 76,800 | 23,302 | 76,800 | 15,968 | 7,334 |
| Michigan | 191,529 | 48,265 | 191,529 | 37,918 | 10,347 |
| Birch | 92,429 | 27,781 | 92,429 | 19,056 | 8,725 |
| Minnesota | 8,561 | 3,258 | 8,561 | 1,959 | 1,299 |
| Wisconsin | 25,430 | 9,270 | 25,430 | 5,492 | 3,778 |
| Michigan | 58,438 | 15,253 | 58,438 | 11,605 | 3,648 |
| Basswood | 59,400 | 13,621 | 59,400 | 11,257 | 2,364 |
| Minnesota | 13,404 | 3,309 | 13,404 | 2,611 | 698 |
| Wisconsin | 27,806 | 6,486 | 27,806 | 5,274 | 1,212 |
| Michigan | 18,190 | 3,826 | 18,190 | 3,372 | 454 |
| Elm | 83,720 | 24,922 | 83,720 | 17,150 | 7,772 |
| Minnesota | 11,683 | 3,882 | 11,683 | 2,536 | 1,346 |
| Wisconsin | 33,433 | 8,792 | 33,433 | 6,559 | 2,233 |
| Michigan | 38,604 | 12,248 | 38,604 | 8,055 | 4,193 |
| Beech | 35,036 | 10,081 | 35,036 | 7,277 | 2,804 |
| Minnesota | - | - | - | - | - |
| Wisconsin | 1,393 | 395 | 1,393 | 287 | 108 |
| Michigan | 33,643 | 9,686 | 33,643 | 6,990 | 2,696 |
| Oak | 157,274 | 59,041 | 157,274 | 35,444 | 23,597 |
| Minnesota | 26,943 | 11,067 | 26,943 | 6,251 | 4,816 |
| Wisconsin | 77,567 | 31,208 | 77,567 | 18,009 | 13,199 |
| Michigan | 52,764 | 16,766 | 52,764 | 11,184 | 5,582 |
| Aspen | 122,221 | 132,008 | 122,221 | 31,177 | 100,831 |
| Minnesota | 44,532 | 44,086 | 44,532 | 11,674 | 32,412 |
| Wisconsin | 46,341 | 48,451 | 46,341 | 11,644 | 36,807 |
| Michigan | 31,348 | 39,471 | 31,348 | 7,859 | 31,612 |
| Cottonwood | 13,226 | 4,951 | 13,226 | 3,011 | 1,940 |
| Minnesota | 6,842 | 2,548 | 6,842 | 1,550 | 998 |
| Wisconsin | 2,940 | 1,029 | 2,940 | 650 | 379 |
| Michigan | 3,444 | 1,374 | 3,444 | 811 | 563 |
| Miscellaneous | 23,845 | 7,849 | 23,845 | 5,117 | 2,732 |
| Minnesota | 3,803 | 1,956 | 3,803 | 974 | 982 |
| Wisconsin | 8,822 | 2,864 | 8,822 | 1,895 | 969 |
| Michigan | 11,220 | 3,029 | 11,220 | 2,248 | 781 |
| Hardwood total | 858,176 | 352,616 | 858,176 | 183,931 | 168,685 |
| Minnesota | 118,464 | 70,901 | 118,464 | 28,111 | 42,790 |
| Wisconsin | 300,532 | 131,797 | 300,532 | 65,778 | 66,019 |
| Michigan | 439,180 | 149,918 | 439,180 | 90,042 | 59,876 |
| All Species | 1,242,135 | 541,182 | 1,242,135 | 266,868 | 274,314 |
| Minnesota | 242,952 | 149,412 | 242,952 | 56,117 | 93,295 |
| Wisconsin | 404,166 | 174,807 | 404,166 | 87,496 | 87,311 |
| Michigan | 595,017 | 216,963 | 595,017 | 123,255 | 93,708 |

# FOREST PRODUCTS HARVESTED

## 1952

Table 16. - Sawlog and sawbolt production in the Lake States - 1952

| Species and origin | Volume cut and destination | | | |
|---|---|---|---|---|
| | Total | Minn. | Wis. | Mich. |
| | M bd.ft., Int'l 1/4-inch | | | |
| White pine | 57,250 | 22,150 | 22,000 | 13,100 |
| Minn. | 22,150 | 22,150 | - | - |
| Wis. | 21,400 | - | 21,400 | - |
| Mich. | 13,700 | - | 600 | 13,100 |
| Red pine | 43,600 | 26,200 | 13,000 | 4,400 |
| Minn. | 26,200 | 26,200 | - | - |
| Wis. | 12,850 | - | 12,850 | - |
| Mich. | 4,550 | - | 150 | 4.400 |
| Jack pine | 61,380 | 41,180 | 8,200 | 12,000 |
| Minn. | 41,180 | 41,180 | - | - |
| Wis. | 8,100 | - | 8,100 | - |
| Mich. | 12,100 | - | 100 | 12,000 |
| Spruce | 7,720 | 3,570 | 950 | 3,200 |
| Minn. | 3,570 | 3,570 | - | - |
| Wis. | 850 | - | 850 | - |
| Mich. | 3,300 | - | 100 | 3,200 |
| Balsam | 3,800 | 2,600 | 650 | 550 |
| Minn. | 2,600 | 2,600 | - | - |
| Wis. | 650 | - | 650 | - |
| Mich. | 550 | - | - | 550 |
| Tamarack | 2,420 | 1,020 | 850 | 550 |
| Minn. | 1,020 | 1,020 | - | - |
| Wis. | 850 | - | 850 | - |
| Mich. | 550 | - | - | 550 |
| Cedar | 6,680 | 2,080 | 1,350 | 3,250 |
| Minn. | 2,080 | 2,080 | - | - |
| Wis. | 1,300 | - | 1,300 | - |
| Mich. | 3,300 | - | 50 | 3,250 |
| Hemlock | 107,550 | - | 41,350 | 66,200 |
| Minn. | - | - | - | - |
| Wis. | 36,950 | - | 36,650 | 300 |
| Mich. | 70,600 | - | 4,700 | 65,900 |
| Softwoods | 290,400 | 98,800 | 88,350 | 103,250 |
| Minn. | 98,800 | 98,800 | - | - |
| Wis. | 82,950 | - | 82,650 | 300 |
| Mich. | 108,650 | - | 5,700 | 102,950 |
| Maple | 229,560 | 1,310 | 74,150 | 154,100 |
| Minn. | 1,510 | 1,310 | 200 | - |
| Wis. | 63,250 | - | 62,950 | 300 |
| Mich. | 164,800 | - | 11,000 | 153,800 |
| Birch | 62,100 | 5,500 | 23,100 | 33,500 |
| Minn. | 5,500 | 5,500 | - | - |
| Wis. | 16,900 | - | 16,900 | - |
| Mich. | 39,700 | - | 6,200 | 33,500 |
| Basswood | 48,770 | 9,370 | 24,400 | 15,000 |
| Minn. | 9,770 | 9,370 | 400 | - |
| Wis. | 23,350 | - | 23,300 | 50 |
| Mich. | 15,650 | - | 700 | 14,950 |
| Elm | 65,780 | 9,080 | 24,800 | 31,900 |
| Minn. | 9,280 | 9,080 | 200 | - |
| Wis. | 23,800 | - | 23,800 | - |
| Mich. | 32,700 | - | 800 | 31,900 |
| Beech | 26,500 | - | 1,500 | 25,000 |
| Minn. | - | - | - | - |
| Wis. | 1,300 | - | 1,300 | - |
| Mich. | 25,200 | - | 200 | 25,000 |
| Oak | 124,830 | 20,630 | 58,000 | 46,200 |
| Minn. | 20,930 | 20,630 | 300 | - |
| Wis. | 57,400 | - | 57,400 | - |
| Mich. | 46,500 | - | 300 | 46,200 |
| Aspen | 131,200 | 38,900 | 54,900 | 37,400 |
| Minn. | 38,900 | 38,900 | - | - |
| Wis. | 55,000 | - | 53,900 | 1,100 |
| Mich. | 37,300 | - | 1,000 | 36,300 |
| Ash | 13,690 | 1,790 | 5,800 | 6,100 |
| Minn. | 1,790 | 1,790 | - | - |
| Wis. | 5,550 | - | 5,500 | 50 |
| Mich. | 6,350 | - | 300 | 6,050 |
| Cottonwood | 9,270 | 4,020 | 2,650 | 2,600 |
| Minn. | 4,420 | 4,020 | 400 | - |
| Wis. | 2,250 | - | 2,250 | - |
| Mich. | 2,600 | - | - | 2,600 |
| Walnut | 560 | 200 | 50 | 310 |
| Minn. | 200 | 200 | - | - |
| Wis. | 50 | - | 50 | - |
| Mich. | 310 | - | - | 310 |
| Misc. | 3,350 | 150 | 300 | 2,900 |
| Minn. | 150 | 150 | - | - |
| Wis. | 300 | - | 300 | - |
| Mich. | 2,900 | - | - | 2,900 |
| Hardwoods | 715,610 | 90,950 | 269,650 | 355,010 |
| Minn. | 92,450 | 90,950 | 1,500 | - |
| Wis. | 249,150 | - | 247,650 | 1,500 |
| Mich. | 374,010 | - | 20,500 | 353,510 |
| All Species | 1,006,010 | 189,750 | 358,000 | 458,260 |
| Minn. | 191,250 | 189,750 | 1,500 | - |
| Wis. | 332,100 | - | 330,300 | 1,800 |
| Mich. | 482,660 | - | 26,200 | 456,460 |

Table 17. - Veneer log production and imports in the Lake States - 1952

| Species and origin | Volume cut and destination |  |  |  |  | Imports |  | Total receipts |
|---|---|---|---|---|---|---|---|---|
|  | Total | Minn. | Wis. | Mich. | Other U.S. | Other U.S. | Foreign Canada |  |
|  | M bd.ft. Int'l 1/4-inch |  |  |  |  | M bd.ft. Int'l 1/4-inch |  |  |
| White pine | 238 | 8 | 49 | 181 | - | - | 28 | 266 |
| Minn. | 8 | 8 | - | - | - | - | - | 8 |
| Wis. | 49 | - | 49 | - | - | - | - | 49 |
| Mich. | 181 | - | - | 181 | - | - | 28 | 209 |
| Hemlock | 145 | - | 145 | - | - | - | - | 145 |
| Minn. | - | - | - | - | - | - | - | - |
| Wis. | 145 | - | 145 | - | - | - | - | 145 |
| Mich. | - | - | - | - | - | - | - | - |
| Softwoods | 383 | 8 | 194 | 181 | - | - | 28 | 411 |
| Minn. | 8 | 8 | - | - | - | - | - | 8 |
| Wis. | 194 | - | 194 | - | - | - | - | 194 |
| Mich. | 181 | - | - | 181 | - | - | 28 | 209 |
| Maple | 23,801 | 41 | 14,373 | 9,278 | 109 | 392 | 790 | 24,874 |
| Minn. | 831 | 41 | 790 | - | - | - | - | 41 |
| Wis. | 7,233 | - | 7,233 | - | - | 392 | 548 | 15,313 |
| Mich. | 15,737 | - | 6,350 | 9,278 | 109 | - | 242 | 9,520 |
| Birch | 18,237 | 96 | 10,755 | 7,386 | - | 12 | 8,840 | 27,089 |
| Minn. | 344 | 96 | 83 | 165 | - | - | - | 96 |
| Wis. | 4,669 | - | 4,414 | 255 | - | 12 | 6,705 | 17,472 |
| Mich. | 13,224 | - | 6,258 | 6,966 | - | - | 2,135 | 9,521 |
| Basswood | 10,385 | 1,041 | 7,082 | 2,262 | - | 540 | 25 | 10,950 |
| Minn. | 3,072 | 1,041 | 1,918 | 113 | - | - | - | 1,041 |
| Wis. | 4,068 | - | 4,068 | - | - | 540 | 25 | 7,647 |
| Mich. | 3,245 | - | 1,096 | 2,149 | - | - | - | 2,262 |
| Elm | 11,474 | 442 | 9,009 | 2,014 | 9 | 257 | 23 | 11,745 |
| Minn. | 971 | 431 | 540 | - | - | - | - | 442 |
| Wis. | 7,909 | 11 | 7,898 | - | - | 257 | - | 9,266 |
| Mich. | 2,594 | - | 571 | 2,014 | 9 | - | 23 | 2,037 |
| Beech | 3,157 | - | 917 | 2,240 | - | - | - | 3,157 |
| Minn. | - | - | - | - | - | - | - | - |
| Wis. | 16 | - | 16 | - | - | - | - | 917 |
| Mich. | 3,141 | - | 901 | 2,240 | - | - | - | 2,240 |
| Oak | 5,067 | - | 3,704 | 1,229 | 134 | 309 | 111 | 5,353 |
| Minn. | 806 | - | 806 | - | - | - | - | - |
| Wis. | 3,431 | - | 2,640 | 791 | - | 309 | 106 | 4,119 |
| Mich. | 830 | - | 258 | 438 | 134 | - | 5 | 1,234 |
| Aspen | 1,390 | 164 | 964 | 262 | - | 2 | 3 | 1,395 |
| Minn. | 657 | 164 | 493 | - | - | - | - | 164 |
| Wis. | 471 | - | 471 | - | - | 2 | 3 | 969 |
| Mich. | 262 | - | - | 262 | - | - | - | 262 |
| Miscellaneous | 4,332 | 72 | 3,502 | 612 | 146 | 654 | 97 | 4,937 |
| Minn. | 1,362 | 72 | 1,196 | 63 | 31 | - | - | 72 |
| Wis. | 1,965 | - | 1,965 | - | - | 4 | 97 | 3,603 |
| Mich. | 1,005 | - | 341 | 549 | 115 | 650 | - | 1,262 |
| Hardwoods | 77,843 | 1,856 | 50,306 | 25,283 | 398 | 2,166 | 9,889 | 89,500 |
| Minn. | 8,043 | 1,845 | 5,826 | 341 | 31 | - | - | 1,856 |
| Wis. | 29,762 | 11 | 28,705 | 1,046 | - | 1,516 | 7,484 | 59,306 |
| Mich. | 40,038 | - | 15,775 | 23,896 | 367 | 650 | 2,405 | 28,338 |
| All Species | 78,226 | 1,864 | 50,500 | 25,464 | 398 | 2,166 | 9,917 | 89,911 |
| Minn. | 8,051 | 1,853 | 5,826 | 341 | 31 | - | - | 1,864 |
| Wis. | 29,956 | 11 | 28,899 | 1,046 | - | 1,516 | 7,484 | 59,500 |
| Mich. | 40,219 | - | 15,775 | 24,077 | 367 | 650 | 2,433 | 28,547 |

Table 18. - Cooperage log production in the Lake States - 1952

| Species and origin | Total | Minn. | Wis. | Mich. | Other U. S. |
|---|---|---|---|---|---|
| | M bd.ft. Int'l 1/4-inch | | | | |
| Basswood | 40 | - | 40 | - | - |
| Minnesota | - | - | - | - | - |
| Wisconsin | 40 | - | 40 | - | - |
| Michigan | - | - | - | - | - |
| Oak | 1,599 | - | 1,599 | - | - |
| Minnesota | 18 | - | 18 | - | - |
| Wisconsin | 1,581 | - | 1,581 | - | - |
| Michigan | - | - | - | - | - |
| Hardwoods | 1,639 | - | 1,639 | - | - |
| Minnesota | 18 | - | 18 | - | - |
| Wisconsin | 1,621 | - | 1,621 | - | - |
| Michigan | - | - | - | - | - |
| All Species | 1,639 | - | 1,639 | - | - |
| Minnesota | 18 | - | 18 | - | - |
| Wisconsin | 1,621 | - | 1,621 | - | - |
| Michigan | - | - | - | - | - |

Table 19. - Pulpwood production and imports in the Lake States - 1952

| Species and origin | Volume cut and destination | | | | | Imports | | Total receipts |
|---|---|---|---|---|---|---|---|---|
| | Total | Minn. | Wis. | Mich. | Other U. S. | Other U. S. | Foreign Canada | |
| | Std.cds. (rough wood) | | | | | Std.cds. (rough wood) | | |
| Jack pine | 346,687 | 105,094 | 192,711 | 48,882 | - | 128,736 | 124,146 | 599,569 |
| Minn. | 193,693 | 104,969 | 87,436 | 1,288 | - | - | 48,719 | 153,813 |
| Wis. | 94,916 | 125 | 91,934 | 2,857 | - | 128,736 | 43,707 | 365,154 |
| Mich. | 58,078 | - | 13,341 | 44,737 | - | - | 31,720 | 80,602 |
| Spruce | 451,592 | 142,060 | 275,874 | 33,658 | - | 4,361 | 583,005 | 1,038,958 |
| Minn. | 292,676 | 142,060 | 150,491 | 125 | - | - | 49,086 | 191,146 |
| Wis. | 38,910 | - | 38,910 | - | - | 2,865 | 453,332 | 732,071 |
| Mich. | 120,006 | - | 86,473 | 33,533 | - | 1,496 | 80,587 | 115,741 |
| Balsam | 391,461 | 62,043 | 282,928 | 46,490 | - | 26 | 26,487 | 417,974 |
| Minn. | 163,267 | 62,043 | 101,224 | - | - | - | 240 | 62,283 |
| Wis. | 75,795 | - | 75,795 | - | - | 26 | 4,573 | 287,527 |
| Mich. | 152,399 | - | 105,909 | 46,490 | - | - | 21,674 | 68,164 |
| Tamarack | 14,340 | 8,874 | 5,466 | - | - | 225 | 141 | 14,706 |
| Minn. | 12,731 | 8,874 | 3,857 | - | - | - | 141 | 9,015 |
| Wis. | 1,412 | - | 1,412 | - | - | 225 | - | 5,691 |
| Mich. | 197 | - | 197 | - | - | - | - | - |
| Hemlock | 190,660 | - | 130,854 | 59,806 | - | - | - | 190,660 |
| Minn. | - | - | - | - | - | - | - | - |
| Wis. | 65,793 | - | 63,681 | 2,112 | - | - | - | 130,854 |
| Mich. | 124,867 | - | 67,173 | 57,694 | - | - | - | 59,806 |
| Softwoods | 1,394,740 | 318,071 | 887,833 | 188,836 | - | 133,348 | 733,779 | 2,261,867 |
| Minn. | 662,367 | 317,946 | 343,008 | 1,413 | - | - | 98,186 | 416,257 |
| Wis. | 276,826 | 125 | 271,732 | 4,969 | - | 131,852 | 501,612 | 1,521,297 |
| Mich. | 455,547 | - | 273,093 | 182,454 | - | 1,496 | 133,981 | 324,313 |
| Maple | 17,507 | - | 10,496 | 7,011 | - | - | - | 17,507 |
| Minn. | - | - | - | - | - | - | - | - |
| Wis. | 10,000 | - | 10,000 | - | - | - | - | 10,496 |
| Mich. | 7,507 | - | 496 | 7,011 | - | - | - | 7,011 |
| Birch | 25,356 | 19 | 25,337 | - | - | - | 7,202 | 32,558 |
| Minn. | 2,342 | 19 | 2,323 | - | - | - | - | 19 |
| Wis. | 14,627 | - | 14,627 | - | - | - | 6,599 | 31,936 |
| Mich. | 8,387 | - | 8,387 | - | - | - | 603 | 603 |
| Elm | 17,121 | - | 5,000 | 12,121 | - | - | - | 17,121 |
| Minn. | - | - | - | - | - | - | - | - |
| Wis. | 5,000 | - | 5,000 | - | - | - | - | 5,000 |
| Mich. | 12,121 | - | - | 12,121 | - | - | - | 12,121 |
| Beech | 1,241 | - | - | 1,241 | - | - | - | 1,241 |
| Minn. | - | - | - | - | - | - | - | - |
| Wis. | - | - | - | - | - | - | - | - |
| Mich. | 1,241 | - | - | 1,241 | - | - | - | 1,241 |
| Oak | 745 | - | - | 745 | - | - | - | 745 |
| Minn. | - | - | - | - | - | - | - | - |
| Wis. | - | - | - | - | - | - | - | - |
| Mich. | 745 | - | - | 745 | - | - | - | 745 |
| Aspen | 820,507 | 240,969 | 475,186 | 85,343 | 19,009 | - | 92,255 | 893,753 |
| Minn. | 269,992 | 234,502 | 35,490 | - | - | - | 60,752 | 301,721 |
| Wis. | 275,499 | 6,467 | 269,032 | - | - | - | 14,736 | 489,922 |
| Mich. | 275,016 | - | 170,664 | 85,343 | 19,009 | - | 16,767 | 102,110 |
| Misc. | 3,283 | 2,042 | - | 1,241 | - | - | - | 3,283 |
| Minn. | 2,042 | 2,042 | - | - | - | - | - | 2,042 |
| Wis. | - | - | - | - | - | - | - | - |
| Mich. | 1,241 | - | - | 1,241 | - | - | - | 1,241 |
| Hardwoods | 885,760 | 243,030 | 516,019 | 107,702 | 19,009 | - | 99,457 | 966,208 |
| Minn. | 274,376 | 236,563 | 37,813 | - | - | - | 60,752 | 303,782 |
| Wis. | 305,126 | 6,467 | 298,659 | - | - | - | 21,335 | 537,354 |
| Mich. | 306,258 | - | 179,547 | 107,702 | 19,009 | - | 17,370 | 125,072 |
| All Species | 2,280,500 | 561,101 | 1,403,852 | 296,538 | 19,009 | 133,348 | 833,236 | 3,228,075 |
| Minn. | 936,743 | 554,509 | 380,821 | 1,413 | - | - | 158,938 | 720,039 |
| Wis. | 581,952 | 6,592 | 570,391 | 4,969 | - | 131,852 | 522,947 | 2,058,651 |
| Mich. | 761,805 | - | 452,640 | 290,156 | 19,009 | 1,496 | 151,351 | 449,385 |

## Table 20. - Production of fuelwood, chemical wood, excelsior bolts in the Lake States - 1952

| Species and origin | Volume cut | | | Species and origin | Volume cut | | |
|---|---|---|---|---|---|---|---|
| | Fuelwood 1/ | Chemical wood | Excelsior | | Fuelwood 1/ | Chemical wood | Excelsior |
| | Standard Cords | | | | Standard Cords | | |
| White pine | 26,000 | - | - | Basswood | 45,000 | - | 4,005 |
| Minnesota | 6,000 | - | - | Minnesota | 25,000 | - | 104 |
| Wisconsin | 5,000 | - | - | Wisconsin | 15,000 | - | 3,710 |
| Michigan | 15,000 | - | - | Michigan | 5,000 | - | 191 |
| Red pine | 17,000 | - | - | Cherry | - | 376 | - |
| Minnesota | 7,000 | - | - | Minnesota | - | - | - |
| Wisconsin | 5,000 | - | - | Wisconsin | - | - | - |
| Michigan | 5,000 | - | - | Michigan | - | 376 | - |
| Jack pine | 120,000 | - | - | Elm | 283,000 | 2,400 | - |
| Minnesota | 85,000 | - | - | Minnesota | 58,000 | - | - |
| Wisconsin | 30,000 | - | - | Wisconsin | 75,000 | 200 | - |
| Michigan | 5,000 | - | - | Michigan | 150,000 | 2,200 | - |
| Spruce | 6,000 | - | - | Beech | 110,000 | 7,393 | - |
| Minnesota | 1,000 | - | - | Minnesota | - | - | - |
| Wisconsin | - | - | - | Wisconsin | 5,000 | 320 | - |
| Michigan | 5,000 | - | - | Michigan | 105,000 | 7,073 | - |
| Balsam | 6,000 | - | - | Oak | 942,000 | 2,580 | - |
| Minnesota | 1,000 | - | - | Minnesota | 167,000 | - | - |
| Wisconsin | - | - | - | Wisconsin | 565,000 | 240 | - |
| Michigan | 5,000 | - | - | Michigan | 210,000 | 2,340 | - |
| Tamarack | 39,000 | - | - | Aspen | 851,000 2/ | - | 75,782 |
| Minnesota | 24,000 | - | - | Minnesota | 386,000 | - | 588 |
| Wisconsin | 10,000 | - | - | Wisconsin | 290,000 | - | 36,945 |
| Michigan | 5,000 | - | - | Michigan | 175,000 | - | 38,249 |
| Cedar | 10,000 | - | - | Ash | - | 2,560 | - |
| Minnesota | 5,000 | - | - | Minnesota | - | - | - |
| Wisconsin | - | - | - | Wisconsin | - | 200 | - |
| Michigan | 5,000 | - | - | Michigan | - | 2,360 | - |
| Hemlock | 20,000 | - | - | Slabs, veneer cores, etc. | - | 94,723 | - |
| Minnesota | - | - | - | Minnesota | - | - | - |
| Wisconsin | 5,000 | - | - | Wisconsin | - | 8,000 | - |
| Michigan | 15,000 | - | - | Michigan | - | 86,723 | - |
| Softwoods | 244,000 | - | - | Miscellaneous | 108,000 | - | - |
| Minnesota | 129,000 | - | - | Minnesota | 38,000 | - | - |
| Wisconsin | 55,000 | - | - | Wisconsin | 45,000 | - | - |
| Michigan | 60,000 | - | - | Michigan | 25,000 | - | - |
| Maple | 615,000 | 43,699 | - | Hardwoods | 3,243,000 | 176,248 | 79,787 |
| Minnesota | 10,000 | - | - | Minnesota | 733,000 | - | 692 |
| Wisconsin | 290,000 | 2,080 | - | Wisconsin | 1,415,000 | 12,000 | 40,655 |
| Michigan | 315,000 | 41,619 | - | Michigan | 1,095,000 | 164,248 | 38,440 |
| Birch | 289,000 | 22,517 | - | All Species | 3,487,000 | 176,248 | 79,787 |
| Minnesota | 49,000 | - | - | Minnesota | 862,000 | - | 692 |
| Wisconsin | 130,000 | 960 | - | Wisconsin | 1,470,000 | 12,000 | 40,655 |
| Michigan | 110,000 | 21,557 | - | Michigan | 1,155,000 | 164,248 | 38,440 |

1/ Excludes slabwood, veneer cores, etc.
2/ Also includes some cottonwood.

## Table 21. - Production of miscellaneous piece products in the Lake States - 1952

| Species and origin | Piling | Poles | Posts | Hewn ties | Species and origin | Piling | Poles | Posts | Hewn ties |
|---|---|---|---|---|---|---|---|---|---|
| | Thousand pieces | | | | | Thousand pieces | | | |
| White pine | .2 | - | - | - | Hickory | .2 | - | - | - |
| Minnesota | .2 | - | - | - | Minnesota | - | - | - | - |
| Wisconsin | - | - | - | - | Wisconsin | - | - | - | - |
| Michigan | - | - | - | - | Michigan | .2 | - | - | - |
| Red pine | 4.5 | 8.4 | 150 | - | Birch | - | - | 60 | 7 |
| Minnesota | 3.6 | 7.9 | 150 | - | Minnesota | - | - | 10 | 1 |
| Wisconsin | - | .5 | - | - | Wisconsin | - | - | 50 | - |
| Michigan | .9 | - | - | - | Michigan | - | - | - | 6 |
| Jack pine | 3.3 | 22.8 | 465 | - | Elm | 4.1 | - | 100 | - |
| Minnesota | 3.3 | 22.2 | 440 | - | Minnesota | - | - | 20 | - |
| Wisconsin | - | .6 | 25 | - | Wisconsin | 3.2 | - | 40 | - |
| Michigan | - | - | - | - | Michigan | .9 | - | 40 | - |
| Spruce | - | - | 5 | - | Beech | .8 | - | - | - |
| Minnesota | - | - | 5 | - | Minnesota | - | - | - | - |
| Wisconsin | - | - | - | - | Wisconsin | - | - | - | - |
| Michigan | - | - | - | - | Michigan | .8 | - | - | - |
| Balsam | - | - | 60 | - | Oak | 8.0 | - | 10,135 | - |
| Minnesota | - | - | 60 | - | Minnesota | - | - | 3,325 | - |
| Wisconsin | - | - | - | - | Wisconsin | 1.8 | - | 4,810 | - |
| Michigan | - | - | - | - | Michigan | 6.2 | - | 2,000 | - |
| Tamarack | .1 | .3 | 1,110 | 15 | Ash | .2 | - | - | 1 |
| Minnesota | .1 | .3 | 500 | 11 | Minnesota | - | - | - | 1 |
| Wisconsin | - | - | 500 | 2 | Wisconsin | .1 | - | - | - |
| Michigan | - | - | 110 | 2 | Michigan | .1 | - | - | - |
| Cedar | - | 141.3 | 12,430 | 41 | Aspen | - | - | 580 | - |
| Minnesota | - | 105.8 | 1,270 | 11 | Minnesota | - | - | 285 | - |
| Wisconsin | - | 15.1 | 3,850 | 4 | Wisconsin | - | - | 220 | - |
| Michigan | - | 20.4 | 7,310 | 26 | Michigan | - | - | 75 | - |
| Hemlock | - | - | 25 | 4 | Miscellaneous | .5 | - | 100 | - |
| Minnesota | - | - | - | - | Minnesota | - | - | 55 | - |
| Wisconsin | - | - | 25 | 1 | Wisconsin | - | - | 25 | - |
| Michigan | - | - | - | 3 | Michigan | .5 | - | 20 | - |
| Softwoods | 8.1 | 172.8 | 14,245 | 60 | Hardwoods | 14.5 | - | 11,135 | 20 |
| Minnesota | 7.2 | 136.2 | 2,425 | 22 | Minnesota | - | - | 3,775 | 2 |
| Wisconsin | - | 16.2 | 4,400 | 7 | Wisconsin | 5.3 | - | 5,215 | 1 |
| Michigan | .9 | 20.4 | 7,420 | 31 | Michigan | 9.2 | - | 2,145 | 17 |
| Maple | .7 | - | 160 | 12 | All Species | 22.6 | 172.8 | 25,380 | 80 |
| Minnesota | - | - | 80 | - | Minnesota | 7.2 | 136.2 | 6,200 | 24 |
| Wisconsin | .2 | - | 70 | 1 | Wisconsin | 5.3 | 16.2 | 9,615 | 8 |
| Michigan | .5 | - | 10 | 11 | Michigan | 10.1 | 20.4 | 9,565 | 48 |

Table 22. - Production of mine timbers, heading stock & other miscellaneous cordwood products in the Lake States - 1952

| Species and origin | Mine 1/ timbers | Heading stock | Misc. 2/ products | Species and origin | Mine 1/ timbers | Heading stock | Misc. 2/ products |
|---|---|---|---|---|---|---|---|
| | Thousand cubic feet | | | | Thousand cubic feet | | |
| White pine | 58 | - | 150 | Birch | 327 | 65 | 400 |
| Minnesota | 13 | - | 50 | Minnesota | 8 | - | 340 |
| Wisconsin | - | - | 50 | Wisconsin | 18 | 50 | 50 |
| Michigan | 45 | - | 50 | Michigan | 301 | 15 | 10 |
| Red pine | 54 | - | 90 | Basswood | - | 240 | 150 |
| Minnesota | 52 | - | 40 | Minnesota | - | 10 | 70 |
| Wisconsin | - | - | 20 | Wisconsin | - | 225 | 60 |
| Michigan | 2 | - | 30 | Michigan | - | 5 | 20 |
| Jack pine | 663 | - | 190 | Elm | 108 | 40 | 70 |
| Minnesota | 663 | - | 80 | Minnesota | 50 | - | - |
| Wisconsin | - | - | 40 | Wisconsin | 7 | 40 | - |
| Michigan | - | - | 70 | Michigan | 51 | - | 70 |
| Spruce | 20 | - | 50 | Beech | 58 | - | 600 |
| Minnesota | 18 | - | 20 | Minnesota | - | - | - |
| Wisconsin | - | - | 10 | Wisconsin | - | - | - |
| Michigan | 2 | - | 20 | Michigan | 58 | - | 600 |
| Balsam | - | - | 130 | Oak | 17 | - | 90 |
| Minnesota | - | - | 50 | Minnesota | - | - | 10 |
| Wisconsin | - | - | 20 | Wisconsin | 4 | - | 10 |
| Michigan | - | - | 60 | Michigan | 13 | - | 70 |
| Tamarack | 1,895 | - | 50 | Ash | 84 | 45 | - |
| Minnesota | 664 | - | 20 | Minnesota | 84 | - | - |
| Wisconsin | 101 | - | 10 | Wisconsin | - | 45 | - |
| Michigan | 1,130 | - | 20 | Michigan | - | - | - |
| Cedar | 2,038 | - | 620 | Aspen | - | 770 | 2,230 |
| Minnesota | 317 | - | 80 | Minnesota | - | 55 | 1,720 |
| Wisconsin | 151 | - | 140 | Wisconsin | - | 660 | 340 |
| Michigan | 1,570 | - | 400 | Michigan | - | 55 | 170 |
| Hemlock | 233 | - | 40 | Cottonwood | - | 55 | - |
| Minnesota | - | - | - | Minnesota | - | - | - |
| Wisconsin | 37 | - | 20 | Wisconsin | - | 10 | - |
| Michigan | 196 | - | 20 | Michigan | - | 45 | - |
| Softwoods | 4,961 | - | 1,320 | Hardwoods | 1,729 | 1,340 | 4,290 |
| Minnesota | 1,727 | - | 340 | Minnesota | 168 | 65 | 2,140 |
| Wisconsin | 289 | - | 310 | Wisconsin | 62 | 1,155 | 660 |
| Michigan | 2,945 | - | 670 | Michigan | 1,499 | 120 | 1,490 |
| Maple | 1,135 | 125 | 750 | All Species | 6,690 | 1,340 | 5,610 |
| Minnesota | 26 | - | - | Minnesota | 1,895 | 65 | 2,480 |
| Wisconsin | 33 | 125 | 200 | Wisconsin | 351 | 1,155 | 970 |
| Michigan | 1,076 | - | 550 | Michigan | 4,444 | 120 | 2,160 |

1/ Cribbing, poles, trestle logs, hewed shaft timbers, smelter brands, etc.

2/ Rough forest products used for manufacture of matches, clothespins, bowling pins, handles, woodenware, toys, shingles, lath, log cabin material, etc.